Brett Stevens

List of Publications by Year in descending order

49 papers	687 citations	623734 14 h-index	580821 25 g-index
52 all docs	52 docs citations	52 times ranked	274 citing authors

#	Article	IF	Citations
1	The evolutionary maintenance of LÃ©vy flight foraging. PLoS Computational Biology, 2022, 18, e1009490.	3.2	14
2	On the structure of small strengthâ€2 covering arrays. Journal of Combinatorial Designs, 2020, 28, 5-24.	0.6	3
3	An extension of a construction of covering arrays. Journal of Combinatorial Designs, 2020, 28, 842-861.	0.6	1
4	Unsatisfiability Proofs for Weight 16 Codewords in Lam's Problem. , 2020, , .		3
5	A General Construction of Ordered Orthogonal Arrays Using LFSRs. IEEE Transactions on Information Theory, 2019, 65, 4316-4326.	2.4	2
6	Upper bounds on the sizes of variable strength covering arrays using the LovÃ¡sz local lemma. Theoretical Computer Science, 2019, 800, 146-154.	0.9	5
7	Bounds on Covering Codes in RT Spaces Using Ordered Covering Arrays. Lecture Notes in Computer Science, 2019, , 100-111.	1.3	2
8	Number of t -tuples in arrays from LFSRs. Electronic Notes in Discrete Mathematics, 2018, 65, 17-22.	0.4	1
9	Variable strength covering arrays. Journal of Combinatorial Designs, 2018, 26, 417-438.	0.6	18
10	The LovÃ¡sz Local Lemma and Variable Strength Covering Arrays. Electronic Notes in Discrete Mathematics, 2018, 65, 43-49.	0.4	3
11	Ordered Orthogonal Array Construction Using LFSR Sequences. IEEE Transactions on Information Theory, 2017, 63, 1336-1347.	2.4	6
12	Covering arrays from m-sequences and character sums. Designs, Codes, and Cryptography, 2017, 85, 437-456.	1.6	5
13	Asymptotic Size of Covering Arrays: An Application of Entropy Compression. Journal of Combinatorial Designs, 2017, 25, 243-257.	0.6	14
14	Cube Designs. Journal of Combinatorial Designs, 2016, 24, 223-233.	0.6	0
15	Locating patterns in the de Bruijn torus. Discrete Mathematics, 2016, 339, 1274-1282.	0.7	8
16	Constructing new covering arrays from LFSR sequences over finite fields. Discrete Mathematics, 2016, 339, 1158-1171.	0.7	14
17	The Coolest Way to Generate Binary Strings. Theory of Computing Systems, 2014, 54, 551-577.	1.1	10
18	A construction for strength-3 covering arrays from linear feedback shift register sequences. Designs, Codes, and Cryptography, 2014, 73, 949-968.	1.6	18

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19	Cover starters for covering arrays of strength two. Discrete Mathematics, 2012, 312, 943-956.	0.7	13
20	Sets of orthogonal hypercubes of class r. Journal of Combinatorial Theory - Series A, 2012, 119, 430-439.	0.8	7
21	Divisibility of polynomials over finite fields and combinatorial applications. Designs, Codes, and Cryptography, 2012, 63, 425-445.	1.6	7
22	Two New Measures for Permutations: Ambiguity and Deficiency. IEEE Transactions on Information Theory, 2011, 57, 7648-7657.	2.4	16
23	Geometrical constructions of class-uniformly resolvable structure. Journal of Combinatorial Designs, 2011, 19, 329-344.	0.6	0
24	Octahedral designs. Journal of Combinatorial Designs, 2010, 18, 319-327.	0.6	2
25	Locating Errors Using ELAs, Covering Arrays, and Adaptive Testing Algorithms. SIAM Journal on Discrete Mathematics, 2010, 23, 1776-1799.	0.8	60
26	Bad Pairs in Software Testing. Lecture Notes in Computer Science, 2010, , 39-55.	1.3	4
27	The Hamiltonâ€“Waterloo problem for cycle sizes 3 and 4. Journal of Combinatorial Designs, 2009, 17, 342-352.	0.6	24
28	Research problems on Gray codes and universal cycles. Discrete Mathematics, 2009, 309, 5341-5348.	0.7	17
29	Covering arrays avoiding forbidden edges. Theoretical Computer Science, 2009, 410, 5403-5414.	0.9	25
30	A survey of known results and research areas for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si11.gif" display="inline" overflow="scroll"><mml:mi>n</mml:mi></mml:math>-queens. Discrete Mathematics, 2009, 309, 1-31.	0.7	130
31	Universal cycles of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.gif" display="inline" overflow="scroll"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>â^’</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>-tuples from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif" display="inline" overflow="scroll"><mml:mi>n</mml:mi></mml:math> symbols. Discrete Mathematics, 2009, 309, 5332-5340.	0.7	8
32	Test Generation with Context Free Grammars and Covering Arrays. , 2009, , .		1
33	Covering Arrays Avoiding Forbidden Edges. Lecture Notes in Computer Science, 2008, , 296-308.	1.3	3
34	Algorithms to Locate Errors Using Covering Arrays. , 2008, , 504-519.		12
35	Constructing orthogonal pandiagonal Latin squares and panmagic squares from modularn-queens solutions. Journal of Combinatorial Designs, 2007, 15, 221-234.	0.6	6
36	Division of trinomials by pentanomials and orthogonal arrays. Designs, Codes, and Cryptography, 2007, 45, 1-17.	1.6	10

#	Article	IF	Citations
37	Covering arrays on graphs. Journal of Combinatorial Theory Series B, 2005, 95, 134-151.	1.0	33
38	Pancomponented 2-factorizations of complete graphs. Discrete Mathematics, 2005, 299, 99-112.	0.7	0
39	Group construction of covering arrays. Journal of Combinatorial Designs, 2005, 13, 70-77.	0.6	42
40	Packing arrays. Theoretical Computer Science, 2004, 321, 125-148.	0.9	6
41	Packing arrays. Theoretical Computer Science, 2004, 321, 125-148.	0.9	1
42	Covering arrays with mixed alphabet sizes. Journal of Combinatorial Designs, 2003, 11, 413-432.	0.6	45
43	Solution of an outstanding conjecture: the non-existence of universal cycles with k=nâˆ’2. Discrete Mathematics, 2002, 258, 193-204.	0.7	6
44	Packing Arrays and Packing Designs. Designs, Codes, and Cryptography, 2002, 27, 165-176.	1.6	7
45	The Directed Anti-Oberwolfach Solution: Pancyclic 2-Factorizations of Complete Directed Graphs of Odd Order. Electronic Journal of Combinatorics, 2002, 9, .	0.4	2
46	Class-uniformly resolvable designs. Journal of Combinatorial Designs, 2001, 9, 79-99.	0.6	10
47	New recursive methods for transversal covers. Journal of Combinatorial Designs, 1999, 7, 185-203.	0.6	36
48	Lower Bounds for Transversal Covers. Designs, Codes, and Cryptography, 1998, 15, 279-299.	1.6	29
49	The combinatorial game N ofil played on Steiner triple systems. Journal of Combinatorial Designs, 0, , .	0.6	0